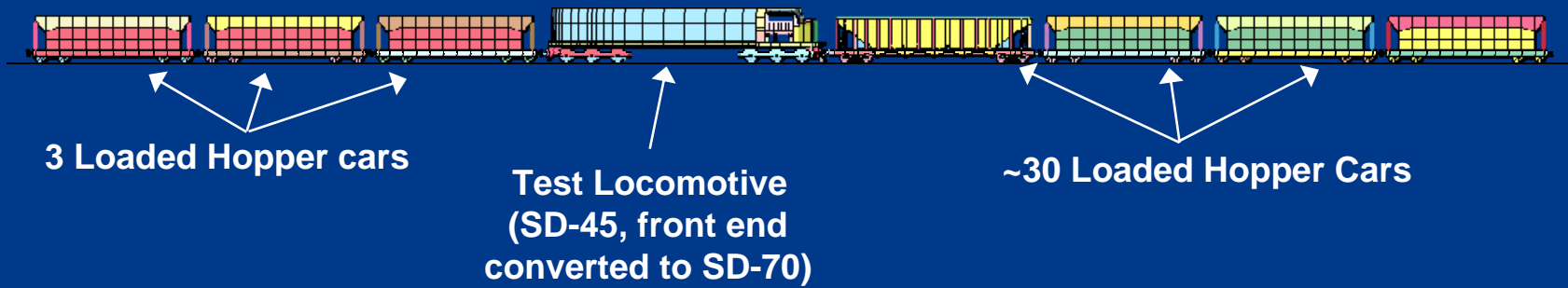


Locomotive Collision Test #1

Inline Collision of a Freight Locomotive with a Stationary Hopper Consist



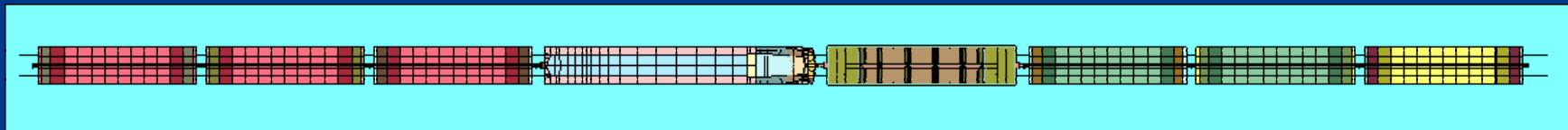
Test #1: Set-Up



Collision Speed - 30 mph

Bullet Consist

Target Consist



50 mph

Stationary

Test #1: Pre-Test Photos



Bullet locomotive and
trailing hopper cars



Stationary hopper car

Test #1: Post Test Photos



Position of locomotive
following collision test



View of locomotive front end
buried in hopper car debris

Test #1: Post Test Photos



Extensive damage to end plate and draft gear pocket



Test #1: Outcome

- What did we learn from this test?
 - Even at low speeds (~30 mph), the locomotive can override stationary vehicles
 - Anticlimber and collision posts did not directly affect the outcome of this collision
 - End plate and draft gear pocket formed a ramp that allowed the locomotive to ride up on top of the comparatively weaker hopper structure
 - Hopper body provided no resistance to locomotive override